Science G	E DOK Alignment Chart PHYSICAL SCIEN	ICE Grades 3-4 G	E 9-14			
DOK & NECAP	GE Statement with Ceiling DOK	Science Concepts	Examples/Practice Items			
Release Item Codes						
Enduring Knowledge: All living and non-living things are composed of matter having characteristic properties that distinguish one substance from another.						
	S3-4:9 (DOK 3)	Science Concepts:				
	Students demonstrate their understanding of the	a. All matter has weight that can be				
	Properties of Matter by	measured.				
DOK 3	8 8	b. The weight of the whole is the same as the sum of the parts.				
PS1(K-4)INQ-1 PS1(K-4)SAE-3	parts of a substance, no matter how they are combined,	c. Most objects/substances are made				
F31(K-4)3AE-3	remains the same (e.g., water and gravel mixture, or a Lego	of smaller parts.				
	car system, or the weight of sugar plus the weight of water	of sinuarer pures.				
	equals the total weight of the sugar solution) and drawing					
	conclusions from these data.					
S3-4:10 Not assessed at						
S3-4:11 Not assessed at		C-: C				
DOK 2	S3-4:12 (DOK 2)	Science Concepts:				
	Students demonstrate their understanding of the States	a. Solids, liquids and gases are states of matter that can be				
	of Matter by	observed, described, and measured.				
PS1(K-4)INQ-1	· Identifying , describing, and comparing the properties of	b. Gases take up as much space as				
PS1(K-4)SAE-3	selected solids, liquids, and gases.	available.				
	S3-4:13 (DOK 2)	Science Concepts:				
	Students demonstrate their understanding of the	a. Gas is a state of matter that takes				
	Properties of a Gas by	up space.				
DOK 2 PS1(K-4)POC-2	· Experimenting with gas in a closed container (such as a					
	bulloon of a bag) and describing now pressure on the					
	container changes when the volume of the gas changes.					
Enduring Knowledge: A transfer of energy can result in the physical change of state of a substance.						
	S3-4:14 (DOK 3)	Science Concepts:				
	Students demonstrate their understanding of Physical	a. Adding heat can change a				
DOK 3	Change by	substance from a solid, to a liquid, to				
PS1(K-4)POC-2	· Investigating and explaining what happens to liquids in	a gas.				
PS2(K-4)INQ + SAE-6	open containers.					
	Page 1 of 2		- 2 AZEDA (CALIE			



Science GE DOK Alignment Chart

S3-4:22 Not assessed at this grade level.

GE 15-22

DOK & NECAP	GE Statement with Ceiling DOK	Science Concepts	Examples/Practice Items			
Release Item Codes		•	-			
Enduring Knowleds	 ve: When matter undergoes a chemical change it turns int	 to a new and different substance whose n	roperties are different from			
Enduring Knowledge: When matter undergoes a chemical change it turns into a new and different substance whose properties are different from the original. No matter how substances interact with one another, the total mass of the system remains the same.						
S3-4:15 Not assessed at this grade level						
S3-4:16 Not assessed at this grade level.						
Enduring Knowledge: The nudeus of some atoms is unstable and may spontaneously decay.						
S3-4:17 Not assessed at this grade level.						
	8					
	d at this grade level.					
Enduring Knowledg	ge: Everything is constantly moving; motion is relative, b	ut the motion of an object can be describ	ed and predicted by tracing			
and measuring its pos						
S3-4:19 Not assesse	d at this grade level.					
S3-4:20 Not assessed at this grade level.						
Enduring Knowledg	ge (Force): Force is an influence that can change the moti	ion of an object.				
	S3-4:21 (DOK 2)	Science Concepts:				
	Students demonstrate their understanding of	a. Changes in position or direction				
	Force by	of motion are caused by forces .				
	· Investigating and describing how different amounts	b. The greater the force , the greater				
DOK 2	Comments and describing now different amounts	the change.				
DOK 2 PS3(K-4)INQ +	of force can change the position or direction of					
CAE 7	motion of an object					

PHYSICAL SCIENCE

Grades 3-4



GE 23-29

DOK & NECAP	GE Statement with Ceiling DOK	Science Concepts	Examples/Practice				
Release Item Codes			Items				
Enduring Knowleds	Enduring Knowledge: Energy is necessary for change to occur. It is the ability of matter to bring about change.						
*There are many forms of energy.							
*The total energy in the universe is constant.							
*Energy can be transformed and transferred, but not destroyed (Conservation of Energy).							
	*Energy transfers and transformations exhibit the characteristics of systems with inputs, processes and outputs, as well as						
connections to other systems.							
S3-4:23 Not assessed at		Science Concepts:	1				
	S3-4:24 (DOK 2)	a. A complete loop is needed through					
	Students demonstrate their understanding of Electrical	which an electric charge can flow.					
	Energy by	b. Batteries are a source of electrical					
DOK 2	· Building circuits, drawing diagrams of these electric	energy.					
PS2(K-4)SAE-4	circuits, and predicting whether electricity flows or will not	c. Electric circuits can produce light, run					
	flow through the circuit. AND	motors, and create sounds.					
		d. Certain materials are conductors of electricity. Non-conductors					
DOK 2	· Using experimental data to classify different materials as	of electricity are called insulators .					
	conductors and insulators.	or electricity are carried managements.					
	S3-4:25 (DOK 2)	Science Concepts:					
	Students demonstrate their understanding of Magnetism	a. Magnets have opposite charged poles.					
	by	b. When the same poles of magnets are placed near each other, they repel.					
DOK 2	· Describing what happens when like and opposite poles of	c. When the opposite poles of magnets					
PS3(K-4)INQ +		are placed near each other, they attract.					
SAE -8 S3-4:26 Not assessed at	magnets are placed near each other.	<u> </u>					
S3-4:26 Not assessed at							
22 1121 1100 Hobedbed de	S3-4:28 (DOK 2)	Science Concepts:					
	Students demonstrate their understanding of Light	a. Light maintains direction of motion					
	Energy by	until it interacts with another object.					
DOK 2		b. Light can be reflect ed or absorbed .					
PS2(K-4)INQ +	· Investigating with flashlights as well as other light sources						
SAE-6	and describing how light rays reflect off of objects.						
	AND						
DOK 2	· Explaining what occurs when light rays are blocked						
PS2(K-4)SAE-5	(e.g., shadows).						
	S3-4:29 Not assessed at this grade level.						
De 1127 A Tot illustrated in the game action							

Grades 3-4

